Greenhill Contracting
Newburgh Custom | Newburgh, NY | ZeroNetNow.com

"After just a short while living in a high-performance home, I can’t imagine living anywhere else.” Home owner

PROJECT DATA

• Layout: 3 bdrm, 3 bath, 1 fl + bsmt, 2,512 ft²
• Climate: IECC 5A, cold
• Completed: July 2019
• Category: custom for buyer

MODELED PERFORMANCE DATA

• HERS Index: without 39; with PV -5
• Annual Energy Costs: without PV $1800; with PV $100
• Annual Energy Cost Savings: (vs typical new homes) without PV $2,200; with PV $3,950
• Annual Energy Savings: without PV 14,700 kWh; with PV 26,200 kWh
• Savings in the First 30 Years: $167,200

KEY FEATURES

• Walls: ICF, R-22 total: ½” drywall; 11.25” ICF blocks, vinyl siding.
• Roof: Gable roof; ¾” T&G OSB, self-adhered membrane at valleys and roof edges; underlayment; 130 mph rated asphalt shingles, lifetime warranty.
• Attic: Unvented attic; R-65 total, 10.5” R-46 open-cell spray foam plus 2.5” R-19 closed-cell spray foam on underside of roof deck; 16” raised heel trusses.
• Foundation: R-22 ICF basement walls clad with cementitous boards waterproofed with tar; 4.5” R-29 closed-cell spray foam under slab.
• Windows: Triple-pane, argon-filled, low-e, vinyl casement frames, U=0.18, SHGC=0.23; triple-pane sliding doors, U=0.20, SHGC=0.28.
• Air Sealing: 0.18 ACH 50.
• Ventilation: ERV with continuous 20 cfm draw from baths and 40 cfm from kitchen plus boost settings; CO₂ sensor also controls boost setting; MERV 7 & 8 filters.
• HVAC: Ducted mini-split heat pump, 9.8 HSPF, 16 SEER, 2 air handlers, ducts inside.
• Hot Water: Heat pump water heater, EF 3.53, 50-gal.; central manifold plumbing with PEX.
• Lighting: 100% LED, motion sensors.
• Appliances: ENERGY STAR refrigerator, clothes washer, dishwasher, heat pump clothes dryer.
• Solar: 10.2-kW PV.
• Water Conservation: WaterSense-labeled fixtures, drought-resistant landscaping.
• Energy Management System: Programmable thermostat.
• Other: Wide doors and hallways, zero-VOC paint, low-VOC KCMA cabinets; hurricane clips, disaster-resistant features.

CONTACT

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For more information on the DOE Zero Energy Ready Home program, go to http://energy.gov/eere/buildings/zero-energy-ready-home or scan the QR code.